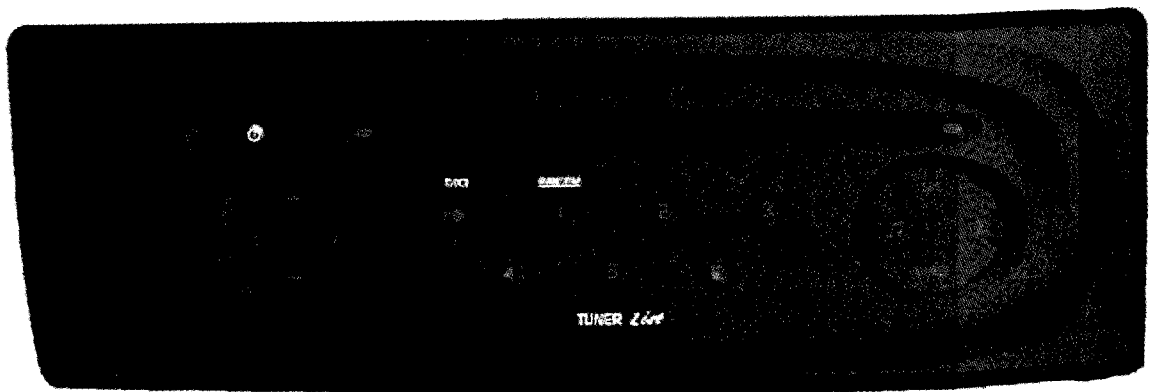
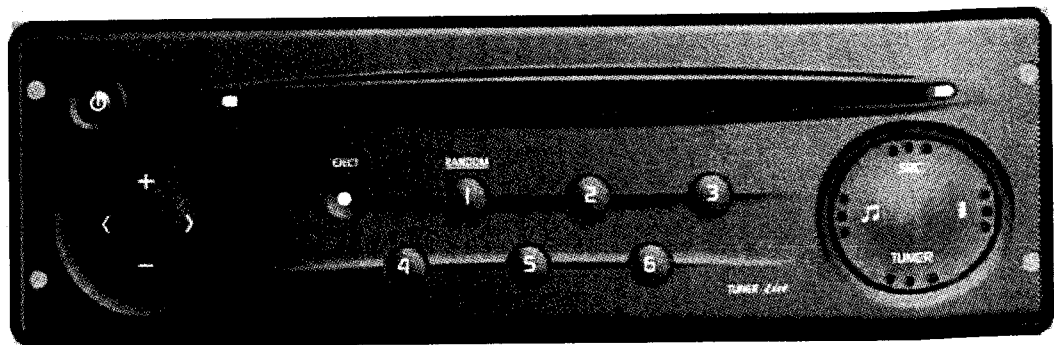


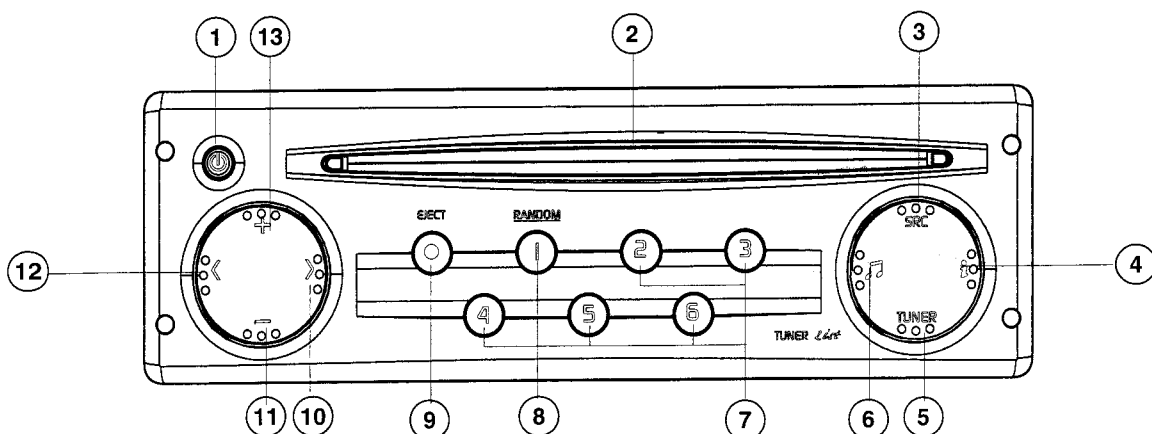
# Service Manual



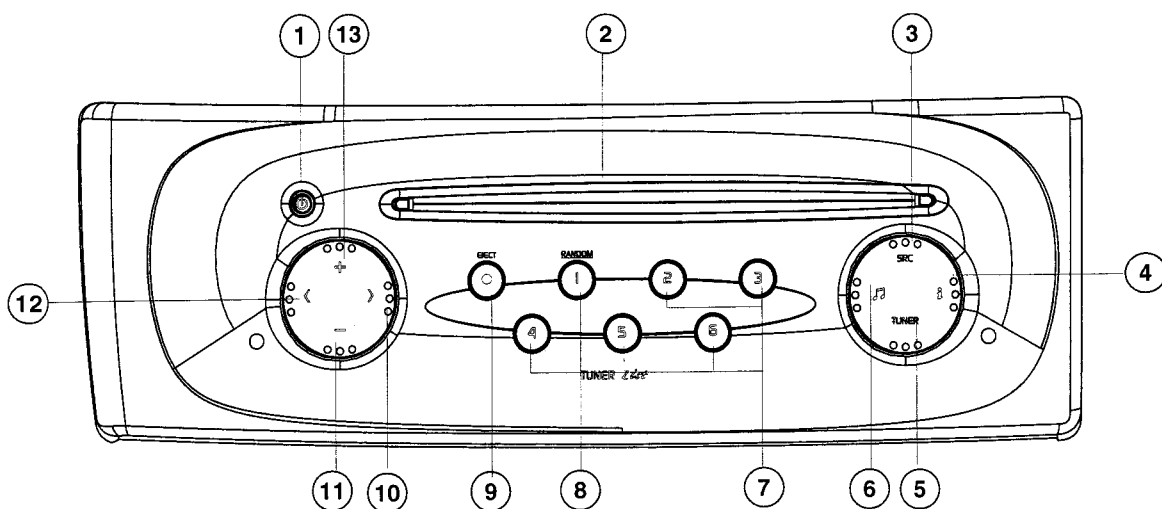
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## CONTROLS

### Front



22DC279/62  
22DC279/62F  
22DC279/62Z

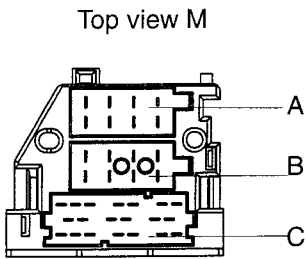
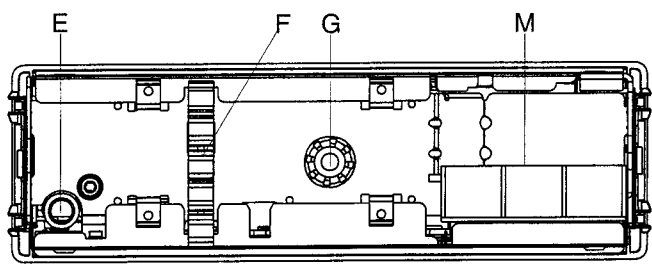


22DC279/62P  
22DC279/62R  
22DC279/62T

- 1 ON / OFF
- 2 DISK OPENING
- 3 SOURCE
- 4 INFO
- 5 TUNER
- 6 BASS/TREBLE - BAL/FADER
- 7 PRESET 2,3,4,5,6
- 8 PRESET 1 / RANDOM
- 9 EJECT DISK BUTTON
- 10 SEARCH UP
- 11 VOL -
- 12 SEARCH DOWN
- 13 VOL +

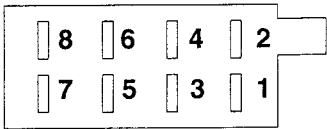
22DC279/62...

CONNECTIONS



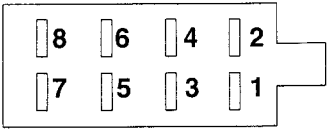
- A1 Speed
- A2 N.C
- A3 Tel mute
- A4 Power permanent supply
- A5 Remote antenna +
- A6 External illumination +
- A7 Non power ignition supply
- A8 Power ground

A : POWER SUPPLY



- B1 Rear right +
- B2 Rear right -
- B3 Front right +
- B4 Front right -
- B5 Front left +
- B6 Front left -
- B7 Rear left +
- B8 Rear left -

B : LOUDSPEAKER SUPPLY



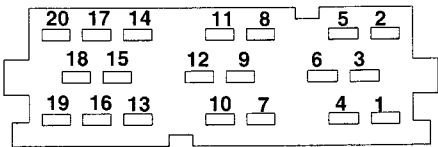
- C1-1 Ext SDA
- C1-2 Ext SCL
- C1-3 Ext MRQ
- C1-4 NC
- C1-5 Radio on
- C1-6 Ground
- C2-7 NC
- C2-8 NC
- C2-9 NC
- C2-10 NC
- C2-11 NC
- C2-12 NC
- C3-13 CD UART TXD
- C3-14 CD UART RXD
- C3-15 CD UART Gnd
- C3-16 + 12v PERMANENT
- C3-17 Remote antenna +
- C3-18 SPDIF input line
- C3-19 SPDIF Gnd
- C3-20 SPDIF Gnd

Yellow Connector

Green Connector

Blue Connector

C : Line - out GND

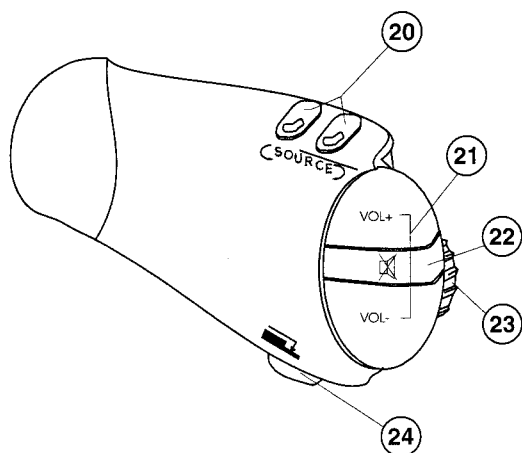


C3 : Digital CD changer (UART + SPDIF)

- E Aerial plug
- F Fastening cable

- E : AERIAL PLUG SLIDE IN
- G : Buffer mounting

## REMOTE CONTROL



|    |   |   |
|----|---|---|
| 20 | Change waveband/source  |   |
| 21 | Vol , Bass, Treble, Balance, Fader + and -<br>when corresponding function activated |   |
| 22 | In code entry mode:<br>SP : Validation digit Sec Code<br>LP : Validation Sec Code   | All others modes:<br>Mute / Demute                        |
| 23 | In code entry mode:<br>Selection digits Sec Code                                    | Changing preset /<br>Track selection                      |
| 24 | In code entry mode:<br>SP : Validation digit Sec Code<br>LP : Validation Sec Code   | In radio mode:<br>SP : search UP<br>LP : Starts Autostore |

SP : Short press

LP : Long press (>2s)

## TECHNICAL DATA

### GENERAL

Power supply : from 10.5 to 16V DC  
Dimensions : 180x150x51 mm

### FEATURES

#### FM-LW-MW-SW-RDS (EON).

Carequalization function : yes  
Dolby Noise Reduction : yes  
Music Search System : yes  
Remote control : yes  
Remote display : yes  
Security code : yes  
Speed dependant volume : yes  
Telephone mute : yes

### RADIO

LW : 144-288 KHz  
MW : 531-1629 KHz  
FM : 87.5-108 MHz  
Sensitivity 26dB S/N : <40  $\mu$ V (LW)  
: <30  $\mu$ V (MW)  
: 1,8  $\mu$ V (FM)  
Limitation  $\alpha$ -3dB : 4,5  $\mu$ V +/- 3 $\mu$ V

### CD

CD mechanism : CDM-M3/4.4

### AMPLIFIER

Output power : 4x15 W / 4  $\Omega$  (THD = 10%)  
Fader control :  $\geq$ 40 dB  
Balance control :  $\geq$ 40 dB  
Source separation :  $\geq$ 60 dB  
Input sensivity (CD in) : 150 mV  $\pm$  2 dB

22DC79/62...

## RADIO - EXTRACT OF THE DFU

You are the owner of a Renault World Radio Receiver, a sophisticated multi-band radio enabling you access many frequencies and wave bands from all over the world.

Your radio is factory set for the country of purchase, however if you travel abroad with your vehicle to another continent it is advisable to re-set your radio to that continent's radio frequency range.

**Caution : Before commencing with this sequences it is important to ensure that you have the preset code for your radio.**

To select a continent

1. Turn off the set .
2. Press keys 2 and 5 simultaneously, whilst pressing these keys switch on the set.
3. Wait for 2 minutes until prompted to enter the set code.
4. Enter the set code
5. Use the thumbwheel on the satellite to access the desired continent.


**Others**

**America**

**Japan**

**Asia**

**Arabia**

6. When you have selected the desired continent long press .


Then continue the sequence to select curves (auto equalisation).

The curve sequence is dependent on the type of car, refer to your car manual or dealer for the correct curve number.


Using the thumbwheel select the desired curve.

|       |   |                     |
|-------|---|---------------------|
| Curve | 0 | =OFF                |
|       | 1 | =Empty              |
|       | 2 | =Clio or similar    |
|       | 3 | =Megane or similar  |
|       | 4 | =Laguna or similar  |
|       | 5 | =Safrane or similar |

Except if the vehicle manual recommends an other selection.

Long press  to leave the mode.

7. Select REAR ON/OFF (loadspeakers).

Press  to validate, after this procedure the set will play normally.

22DC279/62X

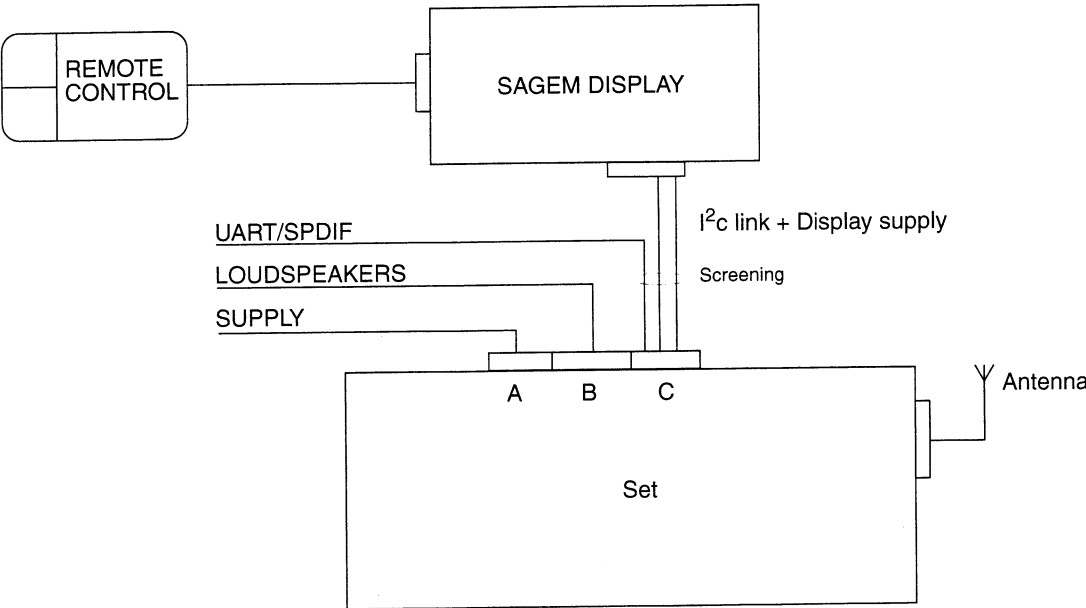
This test can be aborted at any time by switching the set OFF.

SPECIAL FONCTIONS

These sets are parts of a system, composed of the following parts:

- 1)- The set 22DC279/62 or /62F /62P /62R /62T /62Z.
- 2)- A remote control + cable.
- 3)- A remote SAGEM display (A1+ display)
- 4)- A cable link between the set (connector D) and the display.

-IN CASE YOU NEED PARTS OF THIS SYSTEM, PLEASE CONTACT LOCALLY RENAULT TO GET INFO ABOUT THESE PARTS.



2 - Keyboard test

Starting the test: press Pr3 and ON.

"T" is displayed to request keyboard test. For each key pressed, the number of the pressed key appears, according to the table shown below. When all 15 keys have been pressed, "TEST OK" message is displayed.

|        |   |   |   |   |               |      |      |      |      |      |      |     |       |    |    |
|--------|---|---|---|---|---------------|------|------|------|------|------|------|-----|-------|----|----|
| number | 1 | 2 | 3 | 4 | 5             | 6    | 7    | 8    | 9    | 10   | 11   | 12  | 13    | 14 | 15 |
| key    | + | > | - | < | MSS<br>RANDOM | Pr 1 | Pr 2 | Pr 3 | Pr 4 | Pr 5 | Pr 6 | SRC | TUNER |    |    |

ESD



WARNING

All ICs and many other semi-conductors are susceptible to electrostatic discharges (ESD). Careless handling during repair can reduce life drastically. When repairing, make sure that you are connected with the same potential as the mass of the set via a wrist wrap with resistance. Keep components and tools also at this potential.

This set is protected by a security code. THE CODE CAN ONLY BE ENTERED VIA THE REMOTE CONTROL.

Entering the code:

- ) Press the On/Off key to switch on the set. 0000 will appear on the display.
- ) To select the four digits of the code:
  - Adjust the flashing digit with the thumbwheel on the remote control.
  - Press the [22] key or [24] key on the remote control to change the digit.
- ) Press the [22] key or [24] key for at least 2 seconds to validate the code. When the code is activated a bleep will be heard.

Example : you want to enter the code 7637

|      |   |   |   |   |   |
|------|---|---|---|---|---|
|      | Turn the thumbwheel<br>Press [22] or [24] | Turn the thumbwheel<br>Press [22] or [24] | Turn the thumbwheel<br>Press [22] or [24] | Turn the thumbwheel<br>Press [22] or [24] | Press [22] or [24] for at least 2 seconds |
| 0000 | 7000                                      | 7600                                      | 7630                                      | 7637                                      | Last heard frequency                      |

ESD equipment available:

|  |                |
|--|----------------|
| Anti-static table mat large 1200X650X1.25mm                | 4822 466 10953 |
| small 600X650X1.25mm                                       | 4822 466 10958 |
| Connection box (1Mohm)                                     | 4822 395 10223 |
| Extendible cable (to connect wrist band to connection box) | 4822 320 11307 |
| Connecting cable (to connect table mat to connection box)  | 4822 320 11305 |
| Earth cable (to connect any product to mat or box)         | 4822 320 11308 |
| Complete kit ESD3 (combining all above products)           | 4822 310 10671 |
| wristband tester   | 4822 344 13999 |

CHECKS AND ALIGNEMENTS

For general test instruction, please refer to the manual “

Current and voltage

1) Supply voltages - SET OFF-

| SET OFF     | Voltage | Total current<br>+Acc ON | Total current<br>+Acc OFF | μP supply<br>pin 30  | μP V-LOW<br>pin 64 |
|-------------|---------|--------------------------|---------------------------|----------------------|--------------------|
| Acc supply  | +12.6V  | < 3mA                    | not relevant              | Min 4,8V<br>Max 5,2V | Max 0,8V           |
| Perm Supply | +12.6V  | < 2mA                    | <2 mA                     |                      |                    |

2) Supply voltage - SET ON-

| Reset<br>μP<br>pin 25 | 5V supply<br>TDH3608TH<br>pin 15 |             | V-LOW<br>μP<br>pin 64 |             | 8,5V<br>TDA3608TH<br>pin 4 |           | 5V<br>TDA3608TH<br>pin 5 |             | EEPROM supply<br>pin 8 |             |
|-----------------------|----------------------------------|-------------|-----------------------|-------------|----------------------------|-----------|--------------------------|-------------|------------------------|-------------|
| Max 0,8V              | min<br>4,8V                      | max<br>5,2V | min<br>0,8V           | max<br>5,2V | min<br>8V                  | max<br>9V | min<br>4,8V              | max<br>5,2V | min<br>4,8V            | max<br>5,2V |

| CDSP Digital supply |             | CDSP analog supply |             |
|---------------------|-------------|--------------------|-------------|
| min<br>3.1V         | max<br>3.5V | min<br>3,1V        | max<br>3,5V |

| Consumption | FM         | CD         | FM + 4 x 5 W | FM + 4 x 15 W | FM + 4 x 17 W |
|-------------|------------|------------|--------------|---------------|---------------|
| DC 259/62   | 500 mA     | 700 mA     | 5.0 A        | 8.0 A         |               |
| DC 259/62L  | 700 mA     | 900 mA     | 5.0 A        |               | 10.0 A        |
| Limits      | +/- 200 mA | +/- 200 mA | +/- 500 mA   | +/- 1 A       | +/- 1 A       |

3) Reference oscillator frequencies

| Devices          | TMP93PW44DF<br>pin 22 & 23 | SAA1305T<br>pin 14 &15 | SAA7708    |
|------------------|----------------------------|------------------------|------------|
| Frequency        | 14,74 MHz                  | 32,768 Khz             | 11,289 Mhz |
| Cristal Accuracy | +/- 30 PPM                 | +/- 15 %               | +/- 60 PPM |

Checks:

1) FM

|         |            |  |
|---------|------------|--|
| FM mute | 98 MHz 1mV | output at load resistor R & L = 775 mV = REF |
|         | no signal  | output should be < -24 dB (REF - 24 dB)      |

| Limiting point<br>α-3dB | RANGE  | INPUT | NOMINAL | MIN  | MAX  |
|-------------------------|--------|-------|---------|------|------|
|                         | 98 Mhz | 1Khz  | 5 μV    | 3 μV | 8 μV |

|                            |             |             |             |
|----------------------------|-------------|-------------|-------------|
| Search levels Input 98 MHz | Min : 10 μV | Nom : 18 μV | Max : 25 μV |
|----------------------------|-------------|-------------|-------------|

2) AM

|                                    |          |          |       |         |
|------------------------------------|----------|----------|-------|---------|
| Sensitivity at 26dB<br><br>S+N / N | 162 khz  | m = 30 % | 1 khz | < 38 μV |
|                                    | 1053 khz |          |       | < 30 μV |

No alignment is needed for radio part. The tuner module is pre-aligned in the factory. Dolby alignment, crosstalk alignment and FM DC level curve learning procedure are performed via a special equipment and software, not yet available in Service. Some values are stored in the EEprom. The EEprom available in service will contain mean values, that could affect slightly the performance of the set. It is the only solution until further notice. Consequence: If you change the tuner module, change also the EEprom.

3) CD part

| Test CD                              | Test  | Result                              |
|--------------------------------------|---|-------------------------------------|
| Eccent-music 150um<br>4822 397 30279 | Insert disk and play track 01   | No failure                          |
| Vertical deviation<br>4822 397 30282 | Check loading, display of number of tracks and total time. Select track no 9 time 00.20 listen to the disk during 4 seconds | No electrical or mechanical noise   |
| Sub chassis VII A<br>7104 099 28350  | Check loading, display of number of track and total time listen to track 01 diring 5 seconds.                               | Good sound quality and no noise.    |
|                                      | Track 02 check left and right channel.  | No failure.                         |
|                                      | Track 8 time 00.20 listen to disk during 10 seconds.  | Good quality, no jump and no noise. |
| Commercial 8 cm CD                   | Check playability.  | No failure.                         |

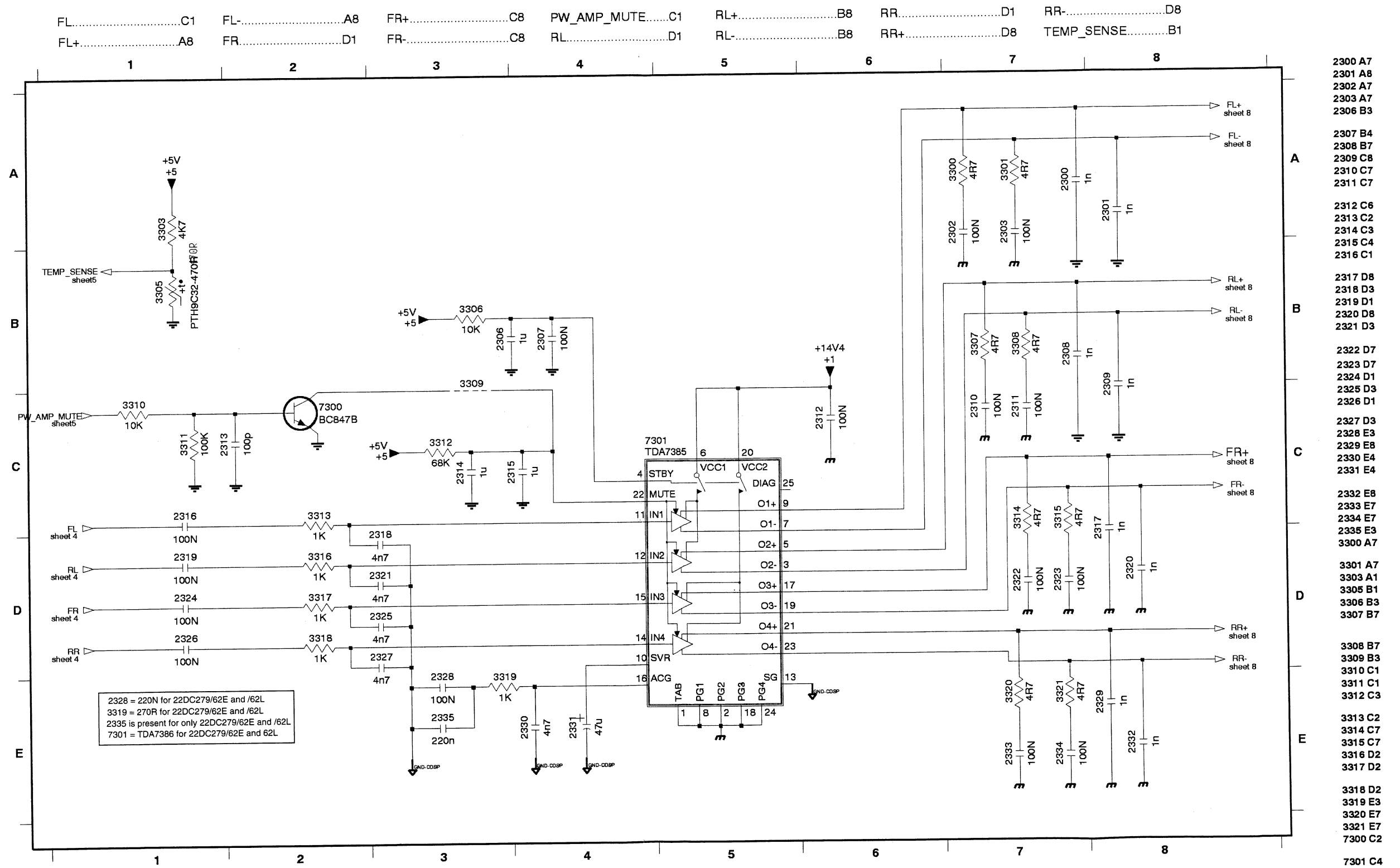
| Test CD                               | Test : CROSS-TALK               |                              | Result                                |
|---------------------------------------|---------------------------------|------------------------------|---------------------------------------|
| Audio signal disk 1<br>4822 397 30184 | Compression Off                 | Crosstalk<br>track 67 and 71 | Crosstalk < -65dB                     |
|                                       | Compression On                  |                              | Crosstalk < -60dB (comp 1 by default) |
| Test CD                               | Test: TOTAL HARMONIC DISTORTION |                              | Result                                |
| 20Khz filter<br>7104 087 04981        | Compression Off                 | track 67 and 71              | Distortion < 0.3 %                    |
|                                       | Compression On                  |                              | Distortion < 10%                      |

Signal to noise ratio

|  |              |
|--|--------------|
| A weighted filter, track 1 versus track 49 of disk 1 |              |
| Compression Off                                      | S / N > 80dB |
| Compression On (default 1)                           | S / N > 70dB |

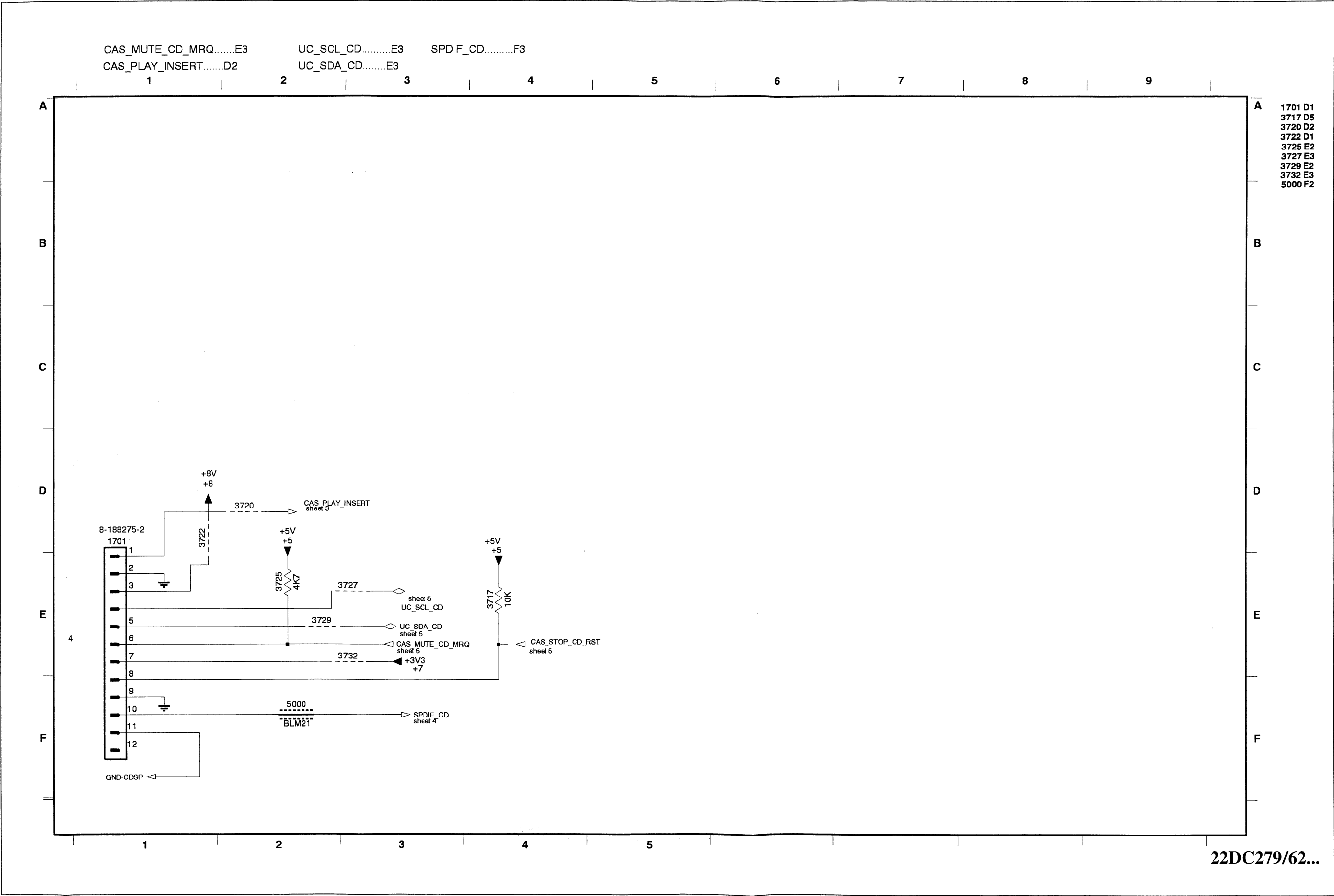


## POWER AMPLIFIER PART

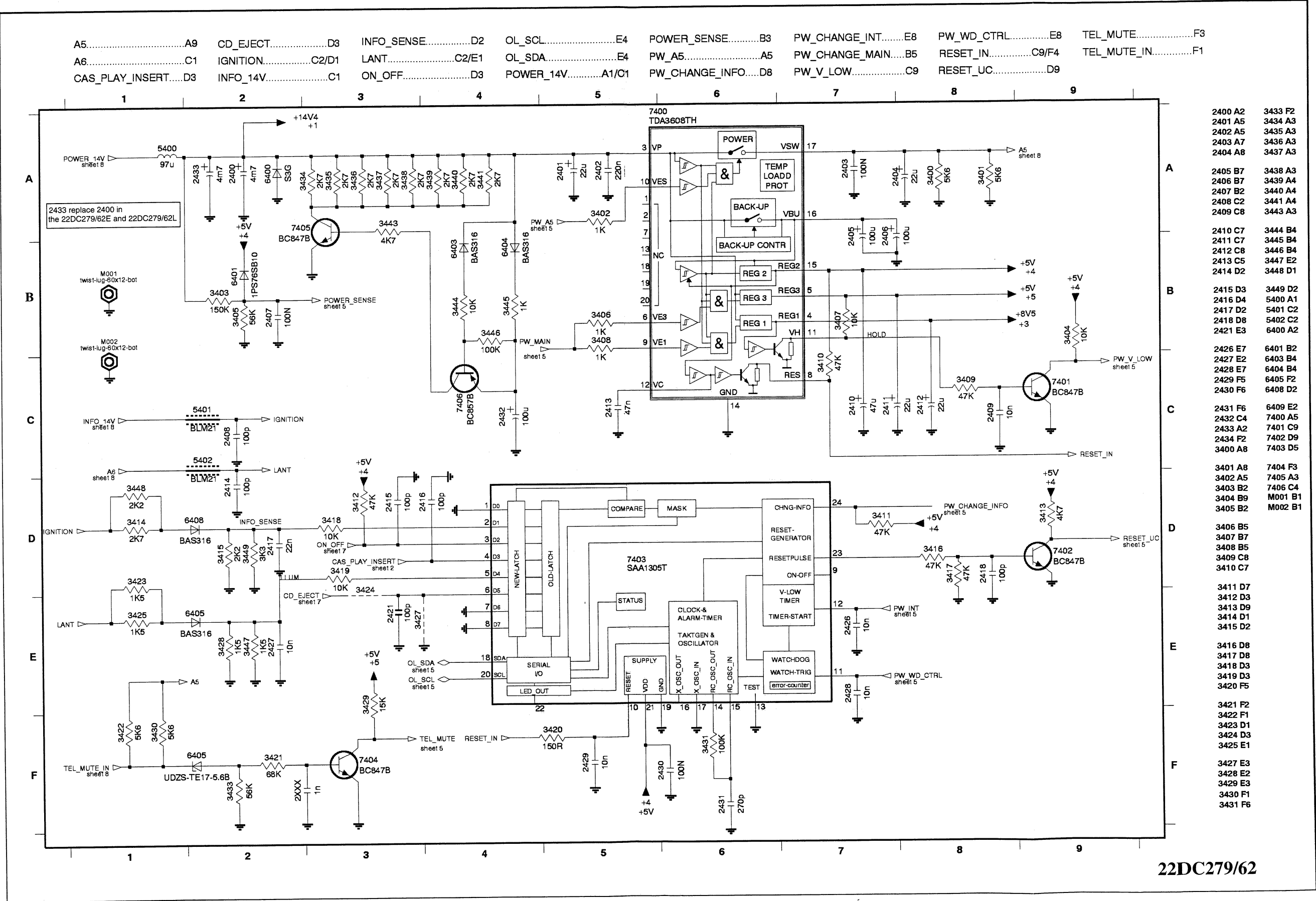


22DC279/62...

CD PART

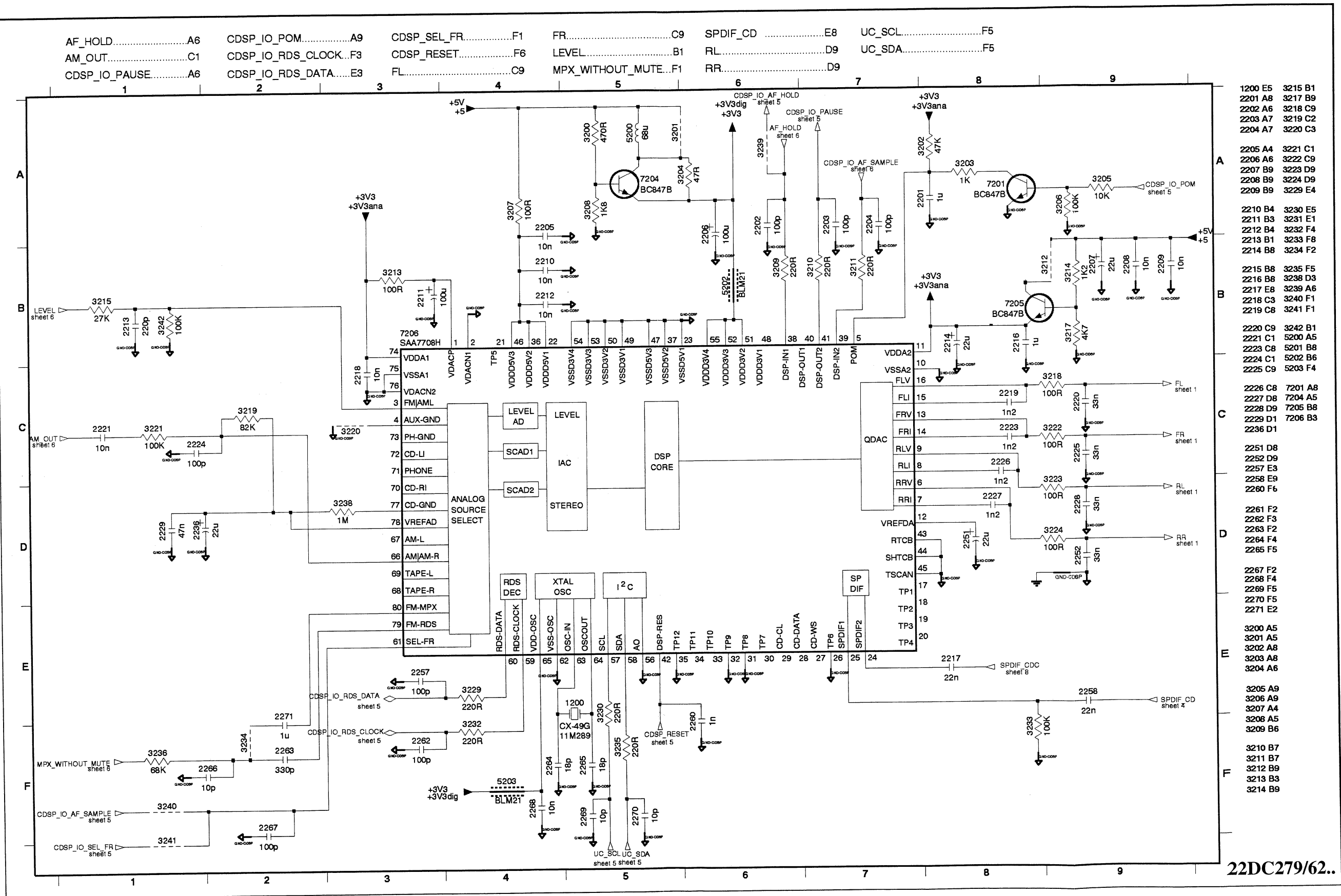


POWER SUPPLY PART

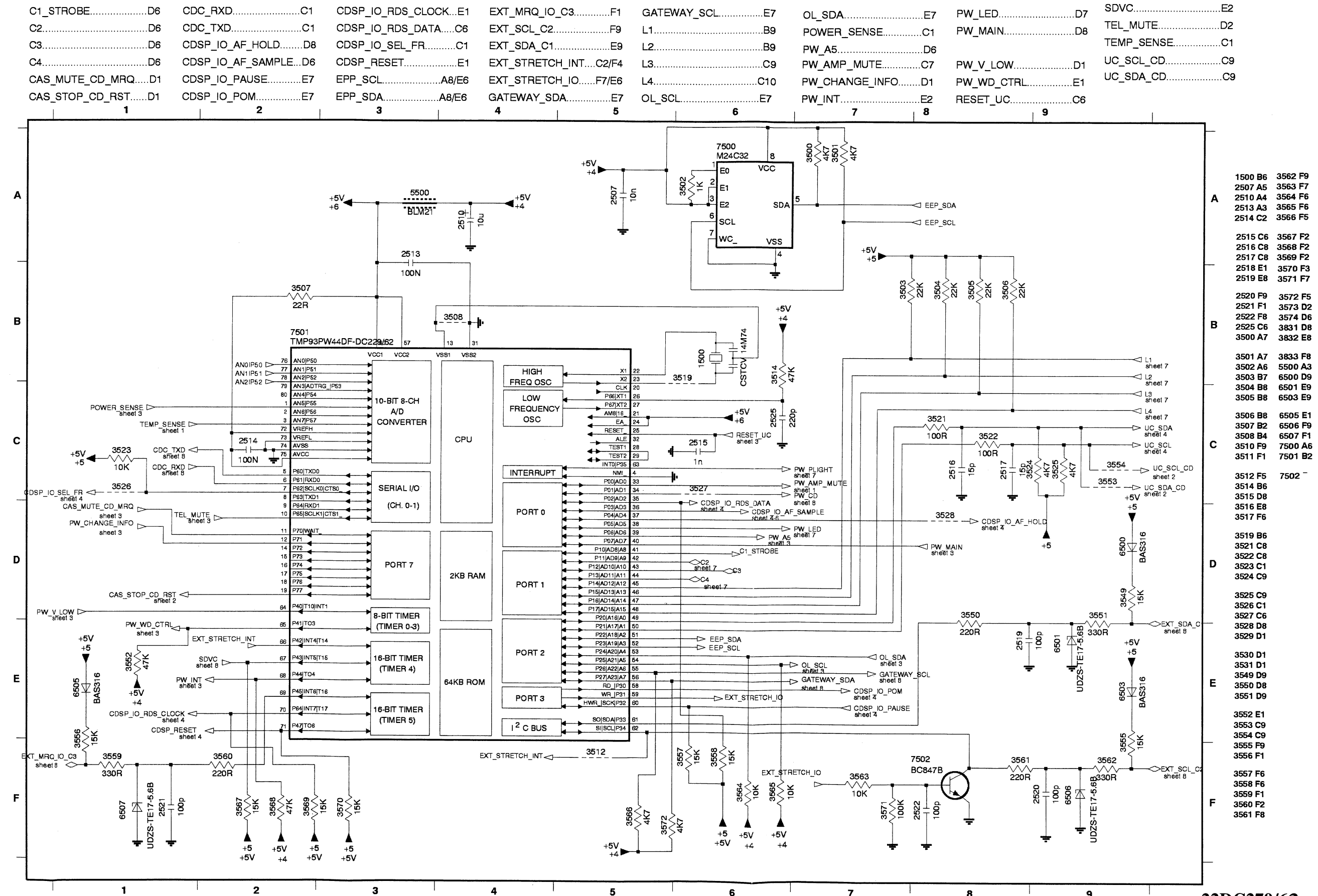


22DC279/62...

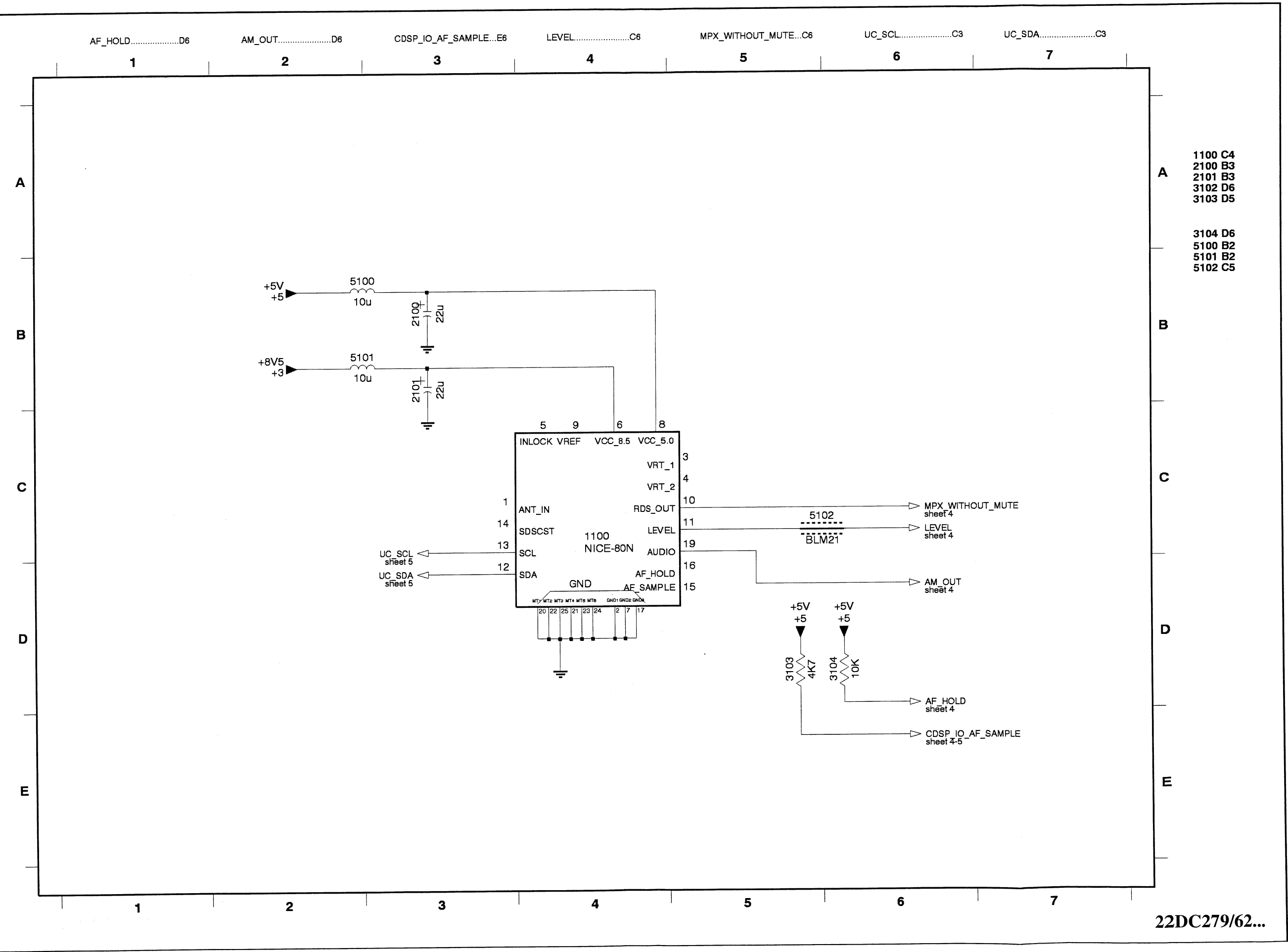
SOUND PROCESS PART



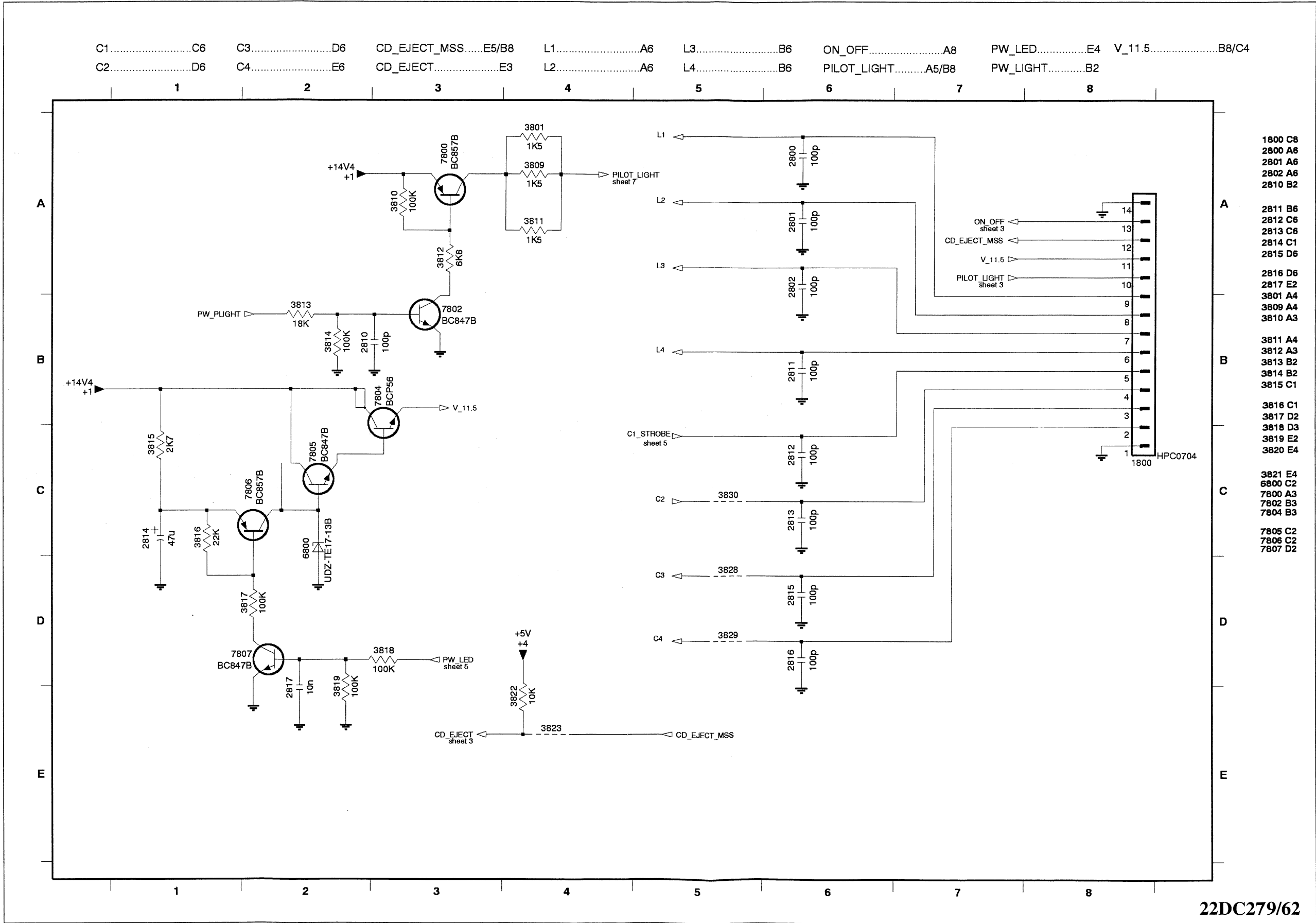
## MICROCONTROLLER PART



TUNER PART

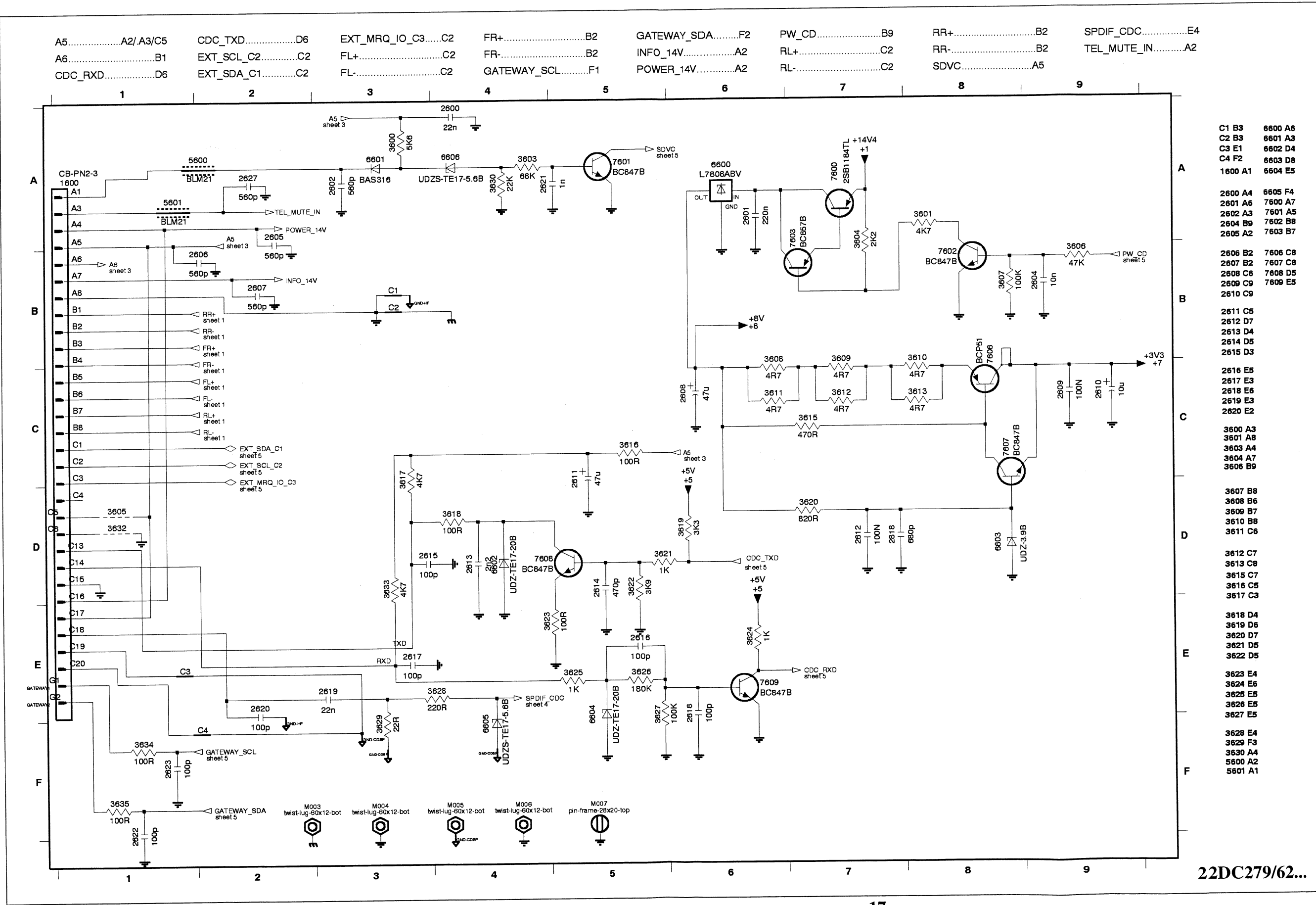


CONNECTION TO FRONT

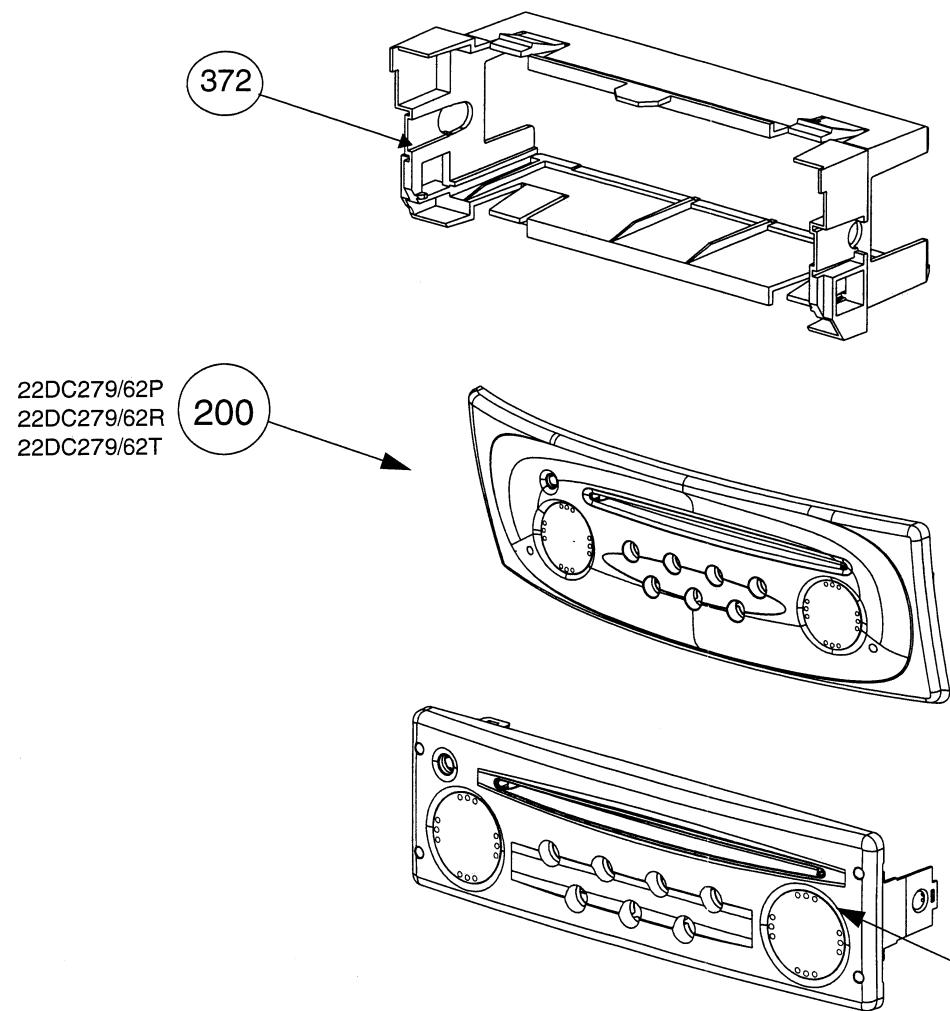




CONNECTOR BLOCK

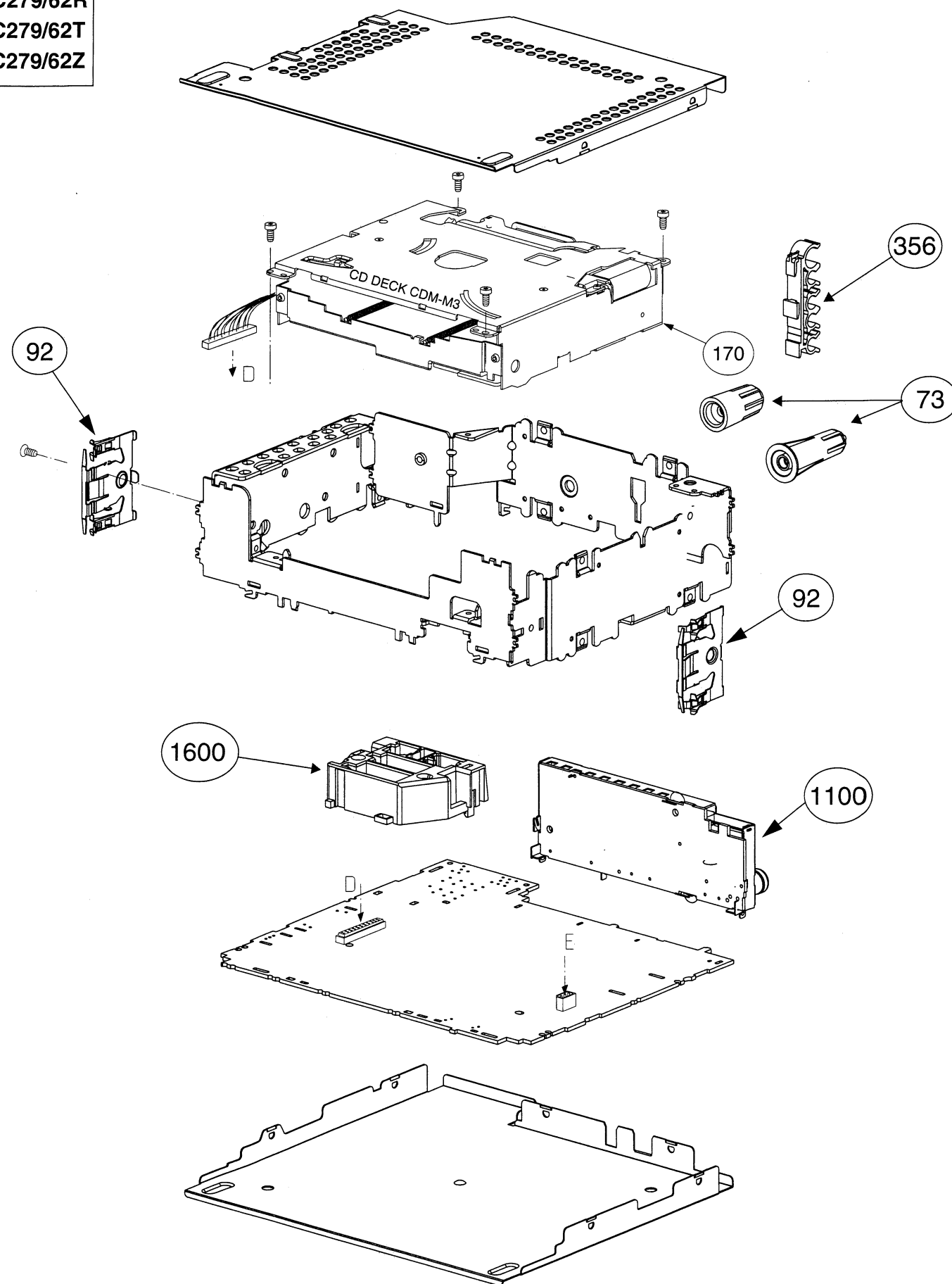


|             |             |
|-------------|-------------|
| 22DC279/62  | 22DC279/62R |
| 22DC279/62F | 22DC279/62T |
| 22DC279/62P | 22DC279/62Z |



200 22DC279/62  
22DC279/62E  
22DC279/62F  
22DC279/62L  
22DC279/62Z

| ITEM | SERVICE CODE   | DESCRIPTION           | DC279/62 | DC279/62E | DC279/62F | DC279/62L | DC279/62P | DC279/62R | DC279/62T | DC279/62Z |
|------|----------------|-----------------------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 73   | 3111 114 48390 | BUFFER MOUNTING       | 1        | 1         | 1         | 1         | 1         | 1         | 1         | 1         |
|      | 3111 114 67400 | BUFFER MOUNTING       |          |           |           |           |           |           |           |           |
| 92   | 3111 111 07140 | SPRING MOUNTING       | 2        | 2         | 2         | 2         | 2         | 2         | 2         | 2         |
| 150  | 3112 358 69641 | CD DECK CDM-M3/4.4    | 1        | 1         | 1         | 1         | 1         | 1         | 1         | 1         |
| 200  | 3111 118 76180 | ORNAMENTAL PLATE ASSY | 1        |           |           |           |           |           |           | 1         |
|      | 3111 118 77100 | ORNAMENTAL PLATE ASSY |          | 1         |           |           |           |           |           |           |
|      | 3111 118 76610 | ORNAMENTAL PLATE ASSY |          |           | 1         |           |           |           |           |           |
|      | 3111 118 76790 | ORNAMENTAL PLATE ASSY |          |           |           | 1         |           |           |           |           |
|      | 3111 118 76330 | ORNAMENTAL PLATE ASSY |          |           |           |           | 1         |           |           |           |
|      | 3111 118 76170 | ORNAMENTAL PLATE ASSY |          |           |           |           |           | 1         |           |           |
|      | 3111 118 76340 | ORNAMENTAL PLATE ASSY |          |           |           |           |           |           | 1         |           |
|      | 3111 118 76800 | ORNAMENTAL PLATE ASSY |          |           |           |           |           |           |           | 1         |
| 205  | 3111 118 76160 | DECK BUTTON ASSY      | 1        |           |           |           |           |           |           |           |
|      | 3111 118 76310 | DECK BUTTON ASSY      |          | 1         |           |           |           |           |           |           |
|      | 3111 118 76320 | DECK BUTTON ASSY      |          |           | 1         |           |           |           |           |           |
|      | 3111 118 76820 | DECK BUTTON ASSY      |          |           |           |           | 1         |           |           |           |
| 356  | 3111 114 69273 | FASTENING CABLE       | 1        | 1         | 1         | 1         | 1         | 1         | 1         | 1         |
| 372  | 3111 114 68970 | SLEEVE                |          |           |           |           | 1         | 1         | 1         |           |



|               |                |                        |      |                |                             |
|---------------|----------------|------------------------|------|----------------|-----------------------------|
| Miscellaneous |                |                        |      |                |                             |
| 375           | 3111 115 33980 |                        |      |                |                             |
| 1100          | 3111 117 13180 | DIRECTION FOR USE      | 1500 | 2422 540 98436 | RES CER SM 14M74            |
| 1200          | 2422 543 01057 | TUNER NICE 80N         | 1600 | 3111 117 13190 | CONNECTOR BLOCK             |
|               |                | RES XTL SM 11M289      |      |                |                             |
| -II-          |                |                        |      |                |                             |
| 2100          | 2020 024 90556 | 22μF 20% 25V           | 2311 | 4822 126 14585 | 100nF 10% X7R 0805 50V      |
| 2101          | 2020 024 90556 | 22μF 20% 25V           | 2312 | 4822 126 14585 | 100nF 10% X7R 0805 50V      |
| 2201          | 4822 126 14043 | 1μF +80-20% Y5V 16V    | 2313 | 5322 122 32531 | 100pF 5%NP0 50V             |
| 2202          | 5322 122 32531 | 100pF 5% NP0 50V       | 2314 | 4822 126 14043 | 1μF +80-20% Y5V 16V         |
| 2203          | 5322 122 32531 | 100pF 5% NP0 50V       | 2316 | 4822 126 14585 | 100nF 10% X7R 0805 50V      |
| 2204          | 5322 122 32531 | 100pF 5% NP0 50V       | 2317 | 2222 580 15623 | 1nF 10% X7R 50V 0805        |
| 2205          | 5322 122 34098 | 10nF10% X7R 63V        | 2318 | 5322 126 10223 | 4,7nF10%X7R 63V             |
| 2206          | 2020 024 90627 | 100μF 20% 16V          | 2319 | 4822 126 14585 | 100nF 10% X7R 0805 50V      |
| 2207          | 2020 024 90556 | 22μF 20% 25V           | 2320 | 2222 580 15623 | 1nF 10% X7R 50V 0805        |
| 2208          | 5322 122 34098 | 10nF 10% X7R 63V       | 2321 | 5322 126 10223 | 4,7nF10%X7R 63V             |
| 2209          | 5322 122 34098 | 10nF 10% X7R 63V       | 2322 | 4822 126 14585 | 100nF 10% X7R 0805 50V      |
| 2210          | 5322 122 34098 | 10nF 10% X7R 63V       | 2323 | 4822 126 14585 | 100nF 10% X7R 0805 50V      |
| 2211          | 2020 024 90627 | 100μF 20% 16V          | 2324 | 4822 126 14585 | 100nF 10% X7R 0805 50V      |
| 2212          | 5322 122 34098 | 10nF 10% X7R 63V       | 2325 | 5322 126 10223 | 4,7nF10%X7R 63V             |
| 2213          | 4822 122 33575 | 220pF 5% NP0 63V       | 2326 | 4822 126 14585 | 100nF 10% X7R 0805 50V      |
| 2214          | 2020 024 90556 | 22μF 20% 25V           | 2327 | 5322 126 10223 | 4,7nF10%X7R 63V             |
| 2216          | 4822 126 14043 | 1μF +80-20% Y5V 16V    | 2328 | 4822 126 14585 | 100nF 50V-> 62/F/P/R/T/Z    |
| 2217          | 5322 122 32654 | 22nF 0805 X7R 63V 10%  | 2328 | 2222 780 15654 | 220nf 16V -> /62E and /62L  |
| 2218          | 5322 122 34098 | 10nF10%X7R 63V         | 2329 | 2222 580 15623 | 1nF 10% X7R 50V 0805        |
| 2219          | 2222 580 15624 | 1N2 0805 X7R 50V 10%   | 2330 | 5322 126 10223 | 4,7nF10%X7R 63V             |
| 2220          | 4822 126 12105 | 33nF 0805 X7R 50V PM5  | 2331 | 4822 124 41842 | 47μF                        |
| 2221          | 5322 122 34098 | 10nF10%X7R 63V         | 2332 | 2222 580 15623 | 1nF 10% X7R 50V 0805        |
| 2223          | 2222 580 15624 | 1N2 0805 X7R 50V 10%   | 2333 | 4822 126 14585 | 100nF 10% X7R 0805 50V      |
| 2224          | 5322 122 32531 | 100pF 5%NP0 50V        | 2334 | 4822 126 14585 | 100nF 10% X7R 0805 50V      |
| 2225          | 4822 126 12105 | 33nF 0805 X7R 50V PM5  | 2335 | 2222 78015654  | 220nF 16V-> /62E and /62L   |
| 2226          | 2222 580 15624 | 1N20805 X7R 50V 10%    | 2400 | 4822 124 12437 | 4700μF 20% 16V              |
| 2227          | 2222 580 15624 | 1N2 0805 X7R 50V 10%   | 2401 | 2020 024 90556 | 22μF 20% 25V                |
| 2228          | 4822 126 12105 | 33nF 0805 X7R 50V PM5  | 2402 | 2222 780 15654 | 220nF 10% X7R 16V 0805      |
| 2229          | 2222 910 15645 | 47nFN 0805 X7R 25V 10% | 2403 | 4822 126 14585 | 100nF 10% X7R 0805 50V      |
| 2236          | 2020 024 90556 | 22μF 20% 25V           | 2404 | 2020 024 90556 | 22μF 20% 25V                |
| 2251          | 2020 024 90556 | 22μF 20% 25V           | 2405 | 2020 024 90627 | 100μF 20% 16V               |
| 2252          | 4822 126 12105 | 33nF 0805 X7R 50V PM5  | 2406 | 2020 024 90627 | 100μF 20% 16V               |
| 2257          | 5322 122 32531 | 100pF 5%NP0 50V        | 2407 | 4822 126 14585 | 100nF 10% X7R 0805 50V      |
| 2258          | 5322 122 32654 | 22N 0805 X7R 63V 10% R | 2408 | 5322 122 32531 | 100pF 5%NP0 50V             |
| 2259          | 4822 126 14043 | 1μF +80-20% Y5V 16V    | 2409 | 5322 122 34098 | 10nF10%X7R 63V              |
| 2260          | 2222 580 15623 | 1nF 10% X7R 50V 0805   | 2410 | 4822 124 41842 | 47μF                        |
| 2262          | 5322 122 32531 | 100pF 5%NP0 50V        | 2411 | 2020 024 90556 | 22μF 20% 25V                |
| 2263          | 5322 122 31863 | 330pF 0805 NP0 63V PM5 | 2412 | 2020 024 90556 | 22μF 20% 25V                |
| 2264          | 4822 126 13689 | 18pF 1% NP0 63V        | 2413 | 2222 910 15645 | 47NF 0805 X7R 25V 10%       |
| 2265          | 4822 126 13689 | 18pF 1% NP0 63V        | 2414 | 5322 122 32531 | 100pF 5%NP0 50V             |
| 2266          | 5322 122 32448 | 10pF 5% NP0 63V        | 2415 | 5322 122 32531 | 100pF 5%NP0 50V             |
| 2267          | 5322 122 32531 | 100pF 5%NP0 50V        | 2416 | 5322 122 32531 | 100pF 5%NP0 50V             |
| 2268          | 5322 122 34098 | 10nF10%X7R 63V         | 2417 | 4822 126 14043 | 1μF +80-20% Y5V 16V         |
| 2269          | 5322 122 32448 | 10pF 5% NP0 63V        | 2418 | 5322 122 32531 | 100pF 5%NP0 50V             |
| 2270          | 5322 122 32448 | 10pF 5% NP0 63V        | 2421 | 5322 122 32531 | 100pF 5%NP0 50V             |
| 2300          | 2222 580 15623 | 1nF 10% X7R 50V 0805   | 2426 | 5322 122 34098 | 10nF10%X7R 63V              |
| 2301          | 2222 580 15623 | 1nF 10% X7R 50V 0805   | 2427 | 5322 122 34098 | 10nF10%X7R 63V              |
| 2302          | 4822 126 14585 | 100nF 10% X7R 0805 50V | 2428 | 5322 122 34098 | 10nF10%X7R 63V              |
| 2303          | 4822 126 14585 | 100nF 10% X7R 0805 50V | 2429 | 5322 122 34098 | 10nF10%X7R 63V              |
| 2305          | 4822 126 14585 | 100nF 10% X7R 0805 50V | 2430 | 4822 126 14585 | 100nF 10% X7R 0805 50V      |
| 2306          | 4822 126 14043 | 1μF +80-20% Y5V 16V    | 2431 | 4822 122 33216 | 270pF 5%NP0 50V             |
| 2307          | 4822 126 14585 | 100nF 10% X7R 0805 50V | 2432 | 2020 024 90627 | 100μF 20% 16V               |
| 2308          | 2222 580 15623 | 1nF 10% X7R 50V 0805   | 2433 | 2020 021 91539 | 6800μF 16V -> /62E and /62L |
| 2309          | 2222 580 15623 | 1nF 10% X7R 50V 0805   | 2507 | 5322 122 34098 | 10nF 10%X7R 63V             |
| 2310          | 4822 126 14585 | 100nF 10% X7R 0805 50V | 2510 | 4822 124 12082 | 10μF 20% SM 50V             |

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|       |                |                         |      |                |                          |
|-------|----------------|-------------------------|------|----------------|--------------------------|
| -II-  |                |                         |      |                |                          |
| 2513  | 4822 126 14585 | 100nF 10% X7R 0805 50V  | 2613 | 2222 580 15627 | 2N2 0805 X7R 50V 10% R   |
| 2514  | 4822 126 14585 | 100nF 10% X7R 0805 50V  | 2614 | 5322 122 32268 | 470P 0805 NP0 63V PM5    |
| 2515  | 2222 580 15623 | 1nF 10% X7R 50V 0805    | 2615 | 5322 122 32531 | 100pF 5% NP0 50V         |
| 2516  | 4822 126 13486 | 15pF 2% NP0 63V         |      |                |                          |
| 2517  | 4822 126 13486 | 15pF 2% NP0 63V         | 2616 | 5322 122 32531 | 100pF 5% NP0 50V         |
|       |                |                         | 2617 | 5322 122 32531 | 100pF 5% NP0 50V         |
| 2519  | 5322 122 32531 | 100pF 5%NP0 50V         | 2618 | 5322 122 32531 | 100pF 5% NP0 50V         |
| 2520  | 5322 122 32531 | 100pF 5%NP0 50V         | 2619 | 5322 122 32654 | 22N 0805 X7R 63V 10% R   |
| 2521  | 5322 122 32531 | 100pF 5%NP0 50V         | 2620 | 5322 122 32531 | 100pF 5%NP0 50V          |
| 2522  | 5322 122 32531 | 100pF 5%NP0 50V         |      |                |                          |
| 2525  | 4822 122 33575 | 220pF 5% NP0 63V        | 2621 | 2222 580 15623 | 1nF 10% X7R 50V 0805     |
|       |                |                         | 2800 | 5322 122 32531 | 100pF 5%NP0 50V          |
| 2600  | 5322 122 32654 | 22NF 0805 X7R 63V 10% R | 2801 | 5322 122 32531 | 100pF 5%NP0 50V          |
| 2601  | 2222 780 15654 | 220nF 10% X7R 16V 0805  | 2802 | 5322 122 32531 | 100pF 5% NP0 50V         |
| 2602  | 5322 116 80853 | 560pF 5%NP0 63V         | 2810 | 5322 122 32531 | 100pF 5% NP0 50V         |
| 2604  | 5322 122 34098 | 10nF10%X7R 63V          |      |                |                          |
| 2605  | 5322 122 32531 | 100pF 5%NP0 50V         | 2811 | 5322 122 32531 | 100pF 5% NP0 50V         |
|       |                |                         | 2812 | 5322 122 32531 | 100pF 5% NP0 50V         |
| 2606  | 5322 122 32531 | 100pF 5%NP0 50V         | 2813 | 5322 122 32531 | 100pF 5% NP0 50V         |
| 2607  | 5322 122 32531 | 100pF 5%NP0 50V         | 2814 | 4822 124 41842 | 47μF                     |
| 2608  | 4822 124 41842 | 47μF                    | 2815 | 5322 122 32531 | 100pF 5% NP0 50V         |
| 2609  | 4822 126 14585 | 100nF 10% X7R 0805 50V  |      |                |                          |
| 2610  | 4822 124 12082 | 10μF 20% SM 50V         | 2816 | 5322 122 32531 | 100pF 5% NP0 50V         |
|       |                |                         | 2817 | 5322 122 34098 | 10nF10% X7R 63V          |
| 2611  | 4822 124 41842 | 47μF                    |      |                |                          |
| 2612  | 4822 126 14585 | 100nF 10% X7R 0805 50V  |      |                |                          |
| -III- |                |                         |      |                |                          |
| 3103  | 4822 051 20472 | 4K70 5% 0,1W            | 3241 | 4822 051 20008 | OR00 JUMP. (0805)        |
| 3104  | 4822 117 10833 | 10K 1% 0,1W             | 3300 | 4822 051 20478 | 4R70 5% 0,1W             |
| 3200  | 4822 051 20471 | 470R00 5% 0,1W          | 3301 | 4822 051 20478 | 4R70 5% 0,1W             |
| 3201  | 4822 051 20008 | OR00 JUMP. (0805)       | 3302 | 4822 117 10833 | 10K 1% 0,1W              |
| 3202  | 4822 117 10834 | 47K 1% 0,1W             | 3303 | 4822 051 20472 | 4K70 5% 0,1W             |
| 3203  | 4822 051 20102 | 1K00 5% 0,1W            | 3305 | 4822 116 10062 | 470R 50% 16V PTC 0805    |
| 3204  | 4822 051 20479 | 47R00 5% 0,1W           | 3306 | 4822 117 10833 | 10K 1% 0,1W              |
| 3205  | 4822 117 10833 | 10K 1% 0,1W             | 3307 | 4822 051 20478 | 4R70 5% 0,1W             |
| 3206  | 4822 117 10837 | 100K 1% 0,1W            | 3308 | 4822 051 20478 | 4R70 5% 0,1W             |
| 3207  | 4822 051 20101 | 100R00 5% 0,1W          | 3309 | 4822 051 20008 | OR00 JUMP. (0805)        |
| 3208  | 4822 051 20182 | 1K80 5% 0,1W            | 3310 | 4822 117 10833 | 10K 1% 0,1W              |
| 3209  | 4822 117 11503 | 220R 1% 0,1W            | 3311 | 4822 117 10837 | 100K 1% 0,1W             |
| 3210  | 4822 117 11503 | 220R 1% 0,1W            | 3312 | 4822 051 20683 | 68K00 5% 0,1W            |
| 3211  | 4822 117 11503 | 220R 1% 0,1W            | 3313 | 4822 051 20102 | 1K00 5% 0,1W             |
| 3212  | 4822 051 20008 | OR00 JUMP. (0805)       | 3314 | 4822 051 20478 | 4R70 5% 0,1W             |
| 3213  | 4822 051 20101 | 100R00 5% 0,1W          | 3315 | 4822 051 20478 | 4R70 5% 0,1W             |
| 3214  | 4822 051 20122 | 1K20 5% 0,1W            | 3316 | 4822 051 20102 | 1K00 5% 0,1W             |
| 3215  | 4822 051 20273 | 27K00 5% 0,1W           | 3317 | 4822 051 20102 | 1K00 5% 0,1W             |
| 3216  | 4822 117 10837 | 100K 1% 0,1W            | 3318 | 4822 051 20102 | 1K00 5% 0,1W             |
| 3217  | 4822 051 20472 | 4K70 5% 0,1W            | 3319 | 4822 051 20102 | 1K -> 62/F/P/R/T/Z       |
| 3218  | 4822 051 20101 | 100R00 5% 0,1W          | 3319 | 4822 117 11504 | 270R 5% -> /62E and /62L |
| 3219  | 4822 117 11149 | 82K 1% 0,1W             | 3320 | 4822 051 20478 | 4R70 5% 0,1W             |
| 3220  | 4822 051 20008 | OR00 JUMP. (0805)       | 3321 | 4822 051 20478 | 4R70 5% 0,1W             |
| 3221  | 4822 117 10837 | 100K 1% 0,1W            | 3402 | 4822 051 20102 | 1K00 5% 0,1W             |
| 3222  | 4822 051 20101 | 100R00 5% 0,1W          | 3403 | 4822 051 20154 | 150K00 5% 0,1W           |
| 3223  | 4822 051 20101 | 100R00 5% 0,1W          | 3404 | 4822 117 10833 | 10K 1% 0,1W              |
| 3224  | 4822 051 20101 | 100R00 5% 0,1W          | 3405 | 4822 117 11148 | 56K 1% 0,1W              |
| 3229  | 4822 117 11503 | 220R 1% 0,1W            | 3406 | 4822 051 20102 | 1K00 5% 0,1W             |
| 3230  | 4822 117 11503 | 220R 1% 0,1W            | 3407 | 4822 117 10833 | 10K 1% 0,1W              |
| 3232  | 4822 117 11503 | 220R 1% 0,1W            | 3408 | 4822 051 20102 | 1K00 5% 0,1W             |
| 3234  | 4822 051 20008 | OR00 JUMP. (0805)       | 3409 | 4822 117 10834 | 47K 1% 0,1W              |
| 3235  | 4822 117 11503 | 220R 1% 0,1W            | 3410 | 4822 117 10834 | 47K 1% 0,1W              |
| 3236  | 4822 051 20683 | 68K00 5% 0,1W           | 3411 | 4822 117 10834 | 47K 1% 0,1W              |
| 3238  | 4822 051 20105 | 1M00 5% 0,1W            | 3412 | 4822 117 10834 | 47K 1% 0,1W              |
| 3239  | 4822 051 20008 | OR00 JUMP. (0805)       | 3413 | 4822 051 20472 | 4K70 5% 0,1W             |

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